

Date

13 Oct 65

MEMORANDUM FOR: Assistant for Administration, NPIC  
ATTENTION: Chief, Security Branch  
SUBJECT: Request for Pre-Contract Contact Clearance

It is requested that approval be granted to make the following contact in connection with a possible contract:

STAT

Name of Firm

Address:

Product of

Names of individuals to be contacted:

(If not known - so state)

not known

STAT

Type of contact desired: mail \_\_\_\_\_ telephone ✓ personal \_\_\_\_\_ (check one)

Date of desired contact: 13 Oct 65

Mailing address required: Yes \_\_\_\_\_ No ✓

Name of NPIC employee to make contact:

Special remarks:

STAT

Contact Approved\*

\*NOTE: See reverse side for special instructions.

# **UNIQUE PLEXICRAFT SURFACE RELEASES INSTRUMENT'S FULL SENSITIVITY!**

- ABSOLUTELY UNIFORM SURFACE with milky white, velvet finish that permits all styluses and ball point pens to respond with utmost sensitivity.

- UNIFORM SUPPLENESS
- HIGHLY RECEPTIVE TO ALL INKS
- EXCELLENT TRANSPARENCY

## **PRICE LIST**

Effective: Sept. 1, 1966

**POLYESTER BASE DRAFTING FILM**

**PAPER BASE RECORDING CHARTS**

**POLYESTER BASE RECORDING CHARTS**

## **ONLY POLYESTER RECORDING CHARTS CAN GUARANTEE DIMENSIONAL STABILITY UNDER ALL ATMOSPHERIC CONDITIONS!**

**PLEXICRAFT Eliminates recording distortions inherent in ordinary paper charts!**

Even the most reputable paper chart manufacturers admit that paper is not a stable material. They are the first to tell you that the cellulose fibre in paper will readily absorb or release moisture. The resulting stretching and shrinking of fibres, distorts the grid lines, especially across the grain.

Under close atmospheric control, the paper chart maker can reduce dimensional variations while the paper is still in his plant. Unfortunately, unless you duplicate the manufacturer's atmospheric conditions, you must

accept some unknown degree of distortion.

Whatever the cost of your instrument and no matter how responsive it is, its ultimate purpose is compromised to the extent that the chart paper distorts results. Charts made of "natural" paper have other error-producing variables. Variations in surface texture can cause the stylus to drag, skip or pick up fibres. Variations in suppleness can cause uneven travel through the instrument.

# **PLEXICRAFT, INC.**

1459 SOUTH LORENA STREET, LOS ANGELES, CALIFORNIA 90023  
Approved For Release 2003/01/28 : CIA-RDP78B04770A002600100011-2  
Phone: (213) 263-9238

# POLYESTER BASE DRAFTING FILM

Approved For Release 2003/01/28 : CIA-RDP78B04770A002600100011-2

## (Matte Finish on Both Sides)

Finest stable base films, milky white velvet finish, excellent transparency. Dimensional stability ideal for drafting and printed circuit masters. Surface is outstandingly receptive to all inks, pencil and type-writer carbon.

### Price per 20 yd. Roll (2 1/4" core)

Thickness	30"	36"	42"
.002"	\$24.70	\$29.60	\$34.50
.003"	29.70	35.70	41.60
.005"	42.00	50.40	58.80
.007"	64.00	79.00	94.00

### Price per 100 Sheet Package

	8 1/2 x 11	9 x 12	11 x 17	12 x 18	17 x 22	18 x 24	22 x 34	24 x 36	30 x 42
.002	\$12.00	\$14.00	\$24.00	\$27.00	\$47.00	\$53.00	\$ 96.80	\$108.80	\$160.00
.003	14.00	16.85	27.80	30.40	53.45	60.35	106.60	120.35	173.70
.005	20.00	23.25	39.85	46.00	79.00	89.15	157.70	176.50	264.80

### Quantity Discount

\$1.00 to 99.99 net    100.00 to 199.99—10%    200.00 to 499.99—20%    500.00 and up 25%

## PAPER BASE RECORDING CHARTS

Outstandingly balanced media for stability and recording properties. Excellent combination of paper strength, surface smoothness and receptivity to all inks, styluses and ballpoint pens.

### Price per 120 ft. roll — 12 in. width

1 roll	1 carton	2-4 cartons	5-9 cartons	10 cartons
\$5.00	\$4.50	\$4.25	\$4.00	\$3.75

(25 rolls per carton)

## POLYESTER BASE RECORDING CHARTS

Finest stable base media, milky white velvet finish, excellent smoothness and transparency. Dimensional stability ideal for accurate recordings. Surface is outstandingly receptive to all inks, styluses and ballpoint pens.

### Price per 100 ft. roll — 12 in. width

1 roll	1 carton	2-4 cartons	5-9 cartons	10 cartons
\$36.00	\$32.40	\$31.20	\$29.50	\$27.00

(25 rolls per carton)

Terms: 1% / 10-30 days net — F.O.B. Los Angeles, Calif.

Effective: September 1, 1966

Prices on other widths on request

# PLEXICRAFT, INC.

1459 SOUTH LORENA STREET / LOS ANGELES, CALIFORNIA 90023

Phone: (213) 263-9238

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# NEW CONCEPT IN SURFACE FINISH OF POLYESTER FILM FOR PRINTING, TYPEWRITING, DRAFTING AND REPRODUCTION PROOFS BY **PLEXICRAFT**

## **PLEXI-LITH P or R**

Excellent for corrections, white suede finish litho base coated stock with removable or permanent pressure sensitive adhesive. Uniquely receptive to all inks, typing or typesetting with maximum degree of opacity.

PLEXI-LITH P 50 8 1/2 x 12 1/2 sheet 100 sheets per case \$21.00  
PLEXI-LITH R 50 8 1/2 x 12 1/2 sheet 100 sheets per case \$21.00

## **PLEXI-PRINT — Adhesive Backed Film**

*Super Tack — ideal for trapping*

A lamination of PLEXI-FILM (see above) with a pressure sensitive adhesive and a release sheet. High ink receptivity enables it to be printed like ordinary paper with regular ink. Unlike ordinary vinyls it does not smudge on press. Highly effective for letter heads, annotations, proofed and cut symbols etc. High tack and dimensional stability keep PLEXI-PRINT flat and in place even in the hottest reproduction machine.

**ASK FOR OUR NEW PRICES**

PLEXI-PRINT 50 8 1/2 x 12 1/2 sheet 100 sheets per case \$21.00  
PLEXI-PRINT 100 8 1/2 x 12 1/2 sheet 100 sheets per case \$21.00

## **PLEXI-TYPE — Adhesive Backed Film**

**ASK FOR OUR NEW PRICES**

*Standard Tack — ideal for reproduction proofs*

A lamination similar to PLEXI-PRINT (see above) but easier to pick up and reposition. Never before has it been possible to obtain such clear, sharp, black impressions from a vari-typer\* or other typewritten copy. Matches and frequently surpasses hot metal reproduction proofs.

PLEXI-TYPE 150 8 1/2 x 12 1/2 sheet 100 sheets per case \$21.00  
PLEXI-TYPE 300 8 1/2 x 12 1/2 sheet 100 sheets per case \$21.00

## **PLEXI-TACK — Adhesive**

A dry, pressure sensitive adhesive laminated between two release sheets. After peeling off first release sheet, the second release sheet with the adhesive is applied to the back of any material. This second release sheet is then peeled away, leaving the artwork backed with an extremely even and transparent pressure sensitive coating. Especially useful with PLEXI-FILM or any other material. Makes an absolutely transparent and invisible adhesion.

PLEXI-TACK 8 1/2 x 13 Sheet 100 sheets per case \$21.00  
PLEXI-TACK 13 in. x 11 in. Roll \$21.00

\*VariType Corporation, 1533 Grandview Avenue, Los Angeles, California 90023. Effective June 1, 1967.  
QUANTITY DISCOUNTS: \$1.00 to \$99.99 net — 10% — \$100.00 to \$199.99 10% — \$200.00 to \$499.99 20% — \$500.00 to and up 25%  
The numbers 150 and 300 correspond to the thickness of the film. Trade name of the VariType Corp.

# PLEXICRAFT, INC.

Approved For Release 2003/01/28 : CIA-RDP78B04770A002600100011-2  
1533 GRANDVIEW AVENUE / LOS ANGELES, CALIFORNIA 90023 Phone: (213) 253-9238

# **NEW CONCEPT IN SURFACE FINISH OF POLYESTER FILM FOR PRINTING, TYPEWRITING, DRAFTING AND REPRODUCTION PROOFS BY PLEXICRAFT**

## **UNUSUALLY FINE SURFACE**

... produces fantastically superior fidelity on VariTyper\* and typewriter. Highly receptive to all kinds of inks and pencils. Outstanding results with all types of printing processes.



An  
unretouched  
enlargement  
of 10 pt. type

Standard paper  
(on the left)

PLEXI-TYPE  
(on the  
right.)

• **EXCEPTIONAL  
TRANSLUCENCY** ... eliminates ghosting.

## • **DIMENSIONAL STABILITY**

... under all atmospheric conditions marks PLEXICRAFT polyester film as an ideal, stable base drafting medium.

\*Trade name of The VariTyper Corp.

# **PLEXICRAFT, INC.**

1539 GRANDE VISTA AVENUE / LOS ANGELES, CALIFORNIA 90023

Approved For Release 2003/01/28 : CIA-RDP78B04770A002800160012-2 263-9238

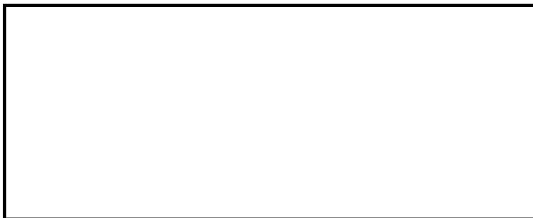
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Enclosed are two of our PR-4F fine point black ink, three of our PR-4 medium point black ink and four of the PR-4B bold point black ink.

The medium point cartridges are the only ones we consider satisfactory to market. However, the other sizes are available if you desire them.

Sincerely yours,



President

PCF:bk  
Enclosures

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Enclosed is a sample of the satin finish mylar produced by

The man who contacted us was

Sincerely yours,

PCF:bk  
Enclosure

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We are contacting you at the suggestion of [redacted] of [redacted] STAT

Enclosed please find samples, technical information and price list of our treated polyester-mylar film with and without pressure sensitive coating for your evaluation.

The attached samples of [redacted] FILM 150C and 200C have more ink absorbency than [redacted] FILM 300 and 500, which is controlled by our process. You may select any of the absorbency characteristics for the thickness you require.

Any of the materials are currently used for offset printing since the capillary surface finish is very similar to the fiber structure of conventional paper.

We carry a large inventory of the line and we can assure you prompt delivery upon your request.

Very truly yours,

[redacted signature]

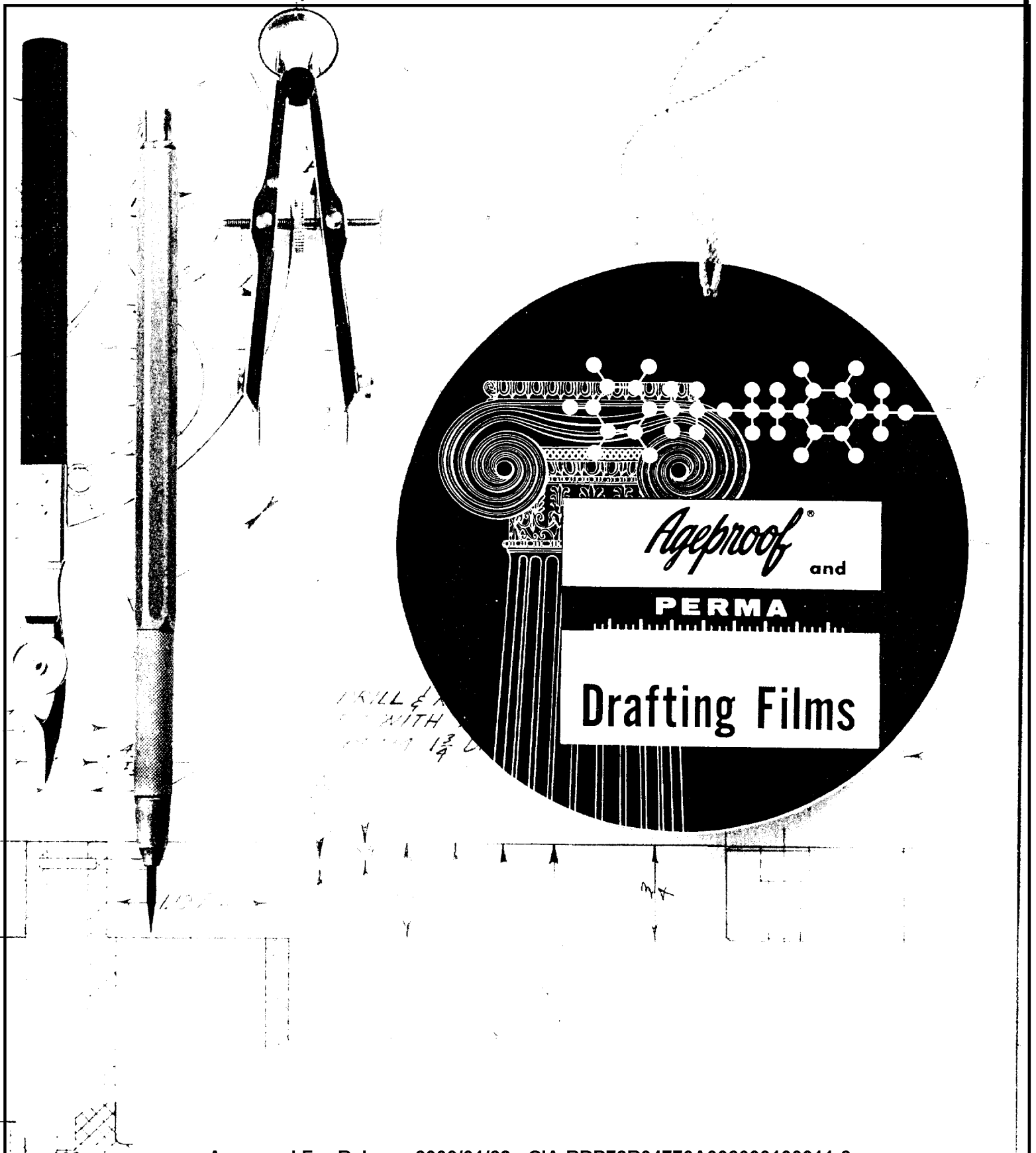
President

STAT

kcs:elh  
encl.

STAT

CPYRGHT



# DIETZGEN POLYESTER DRAFTING FILMS

Dietzgen "Ageproof" and "Perma Scale" films are the high performance drafting media designed to meet the most exacting requirements of engineering documentation. They are particularly recommended when the drawings are subject to many revisions, reproduced frequently by diazo, and microfilmed for engineering records. Their polyester base guarantees excellent durability, stability, transparency and resistance to all forms of moisture.

## CHECK THESE OUTSTANDING FEATURES



### **SUPERIOR DRAFTING QUALITIES**

The matte surfaces are extremely durable and are permanently bonded to the polyester base. The degree of matte is controlled to yield the maximum of pencil line density and uniformity with a minimum of wear of the lead. Erasability and re-draw features are excellent. An exclusive "acceptor" surfacing assures the finest inking characteristics. (See availability listing for recommended leads, inks and eradicators.)



### **DIMENSIONALLY STABLE AND SUPER FLAT**

Ageproof and Perma Scale film products provide amazing dimensional stability which enables a degree of accuracy in drawing and reproduction previously thought impossible for any drafting media. These drafting films meet or surpass all of the stability requirements of government specification L-P-00519(a).

All Dietzgen Perma Scale drafting films (.005" and .0075" thickness) and selected items of the Ageproof drafting films (.003" thickness) have a guaranteed "built in" excellence of flatness. These films are given a separate processing treatment through special flattening equipment which assures a "Super Flat" quality — a unique Dietzgen film feature.

Dietzgen Super Flat films eliminate the "wavy edges," "bubbles," "ripples," which are often typical of films not possessing this exclusive Dietzgen characteristic. Where straightness of lines, planarity, exact dimensions, and control of line direction are critical, Dietzgen Super Flat films are a necessity.

Dietzgen Super Flat Perma Scale films are a "must" for the following applications:

- Undimensioned Drawings
- Map Making
- Lofting — Aircraft, Missile, Automotive, Shipbuilding
- Drawings Prepared on Automated Drafting Machines
- Printed Circuits
- Overlay Drawings
- Template Drawings
- Plant Layout



### **EXTRAORDINARY TOUGHNESS AND DURABILITY**

These polyester based films are characterized by exceptionally high fold and tear strength. For drawings which are to be taken in and out of the files many times, revised and reproduced frequently, etc., the Dietzgen polyester films are low lost "insurance" for continuing active usefulness.



### **SUPERIOR REPRODUCTION QUALITIES**

Dietzgen polyester films are particularly recommended for drawings which are to be microfilmed. They also make superior originals for diazo, photographic, etc., reproductions either for "action" copy or successive generation reproducibles.

**PERMA-SCALE****DRAFTING FILM NO. 138-7****Matte One Side****"SUPER-FLAT"**

In this product we have combined dimensional stability with an excellent "tooth." The "take" quality for pencil and ink makes this rugged product a must wherever stability and flatness are of extreme importance.

**DIETZGEN**

THE FINEST IN DRAFTING  
SURVEYING & PRINTMAKING

Available in 20 yard and 50 yard  
rolls. 36" and 48" wide.

Sheets — cut to sizes ordered.

This is a polyester based product.

**AGEPROOF****DRAFTING FILM NO. 138W-3****(Matte One Side — 0.003" Thick — White Tint)**

The ideal medium for the most exacting drafting requirements. Its surface is "engineered" for pencil and ink acceptance. To this superior drafting surface has been added a whitening agent designed to add contrast between the drawn line and the base media.

This product is ideally suited for regular drafting or drafting for micro-filming.

Delete pencil lines with plastic or other soft eraser; moisten eraser for ink lines. Complete and faster "ghost-free" erasures of pencil and ink lines can be obtained with the use of Dietzgen No. 200X fluid eradicator

DIMENSIONALLY STABLE — DURABLE — TRANSPARENT

**DIETZGEN**

THE FINEST IN DRAFTING  
SURVEYING & PRINTMAKING

Available in 20 yd. rolls  
34", 36" and 42" wide.

Sheets — cut to sizes ordered.

**AGEPROOF**  
**Drafting Film No. 138-3-10G**  
**With No-Print Grid**

Ageproof drafting film combines two new concepts in drafting—the strength and permanence of duPont "MYLAR"\* and utility of no-print grids. The blue lines do not reproduce, but the drawing does! Blueprints or Diazo prints are left clear and sharp. No-Print grids are used as guide lines for lettering or freehand sketching. Since the grids are equally spaced within any one inch area, they can be used for estimating area of irregularly shaped objects.

**DIETZGEN**

THE FINEST IN DRAFTING  
SURVEYING & PRINTMAKING

138-3-8G 8x8 to the inch

138-3-10G 10x10 to the inch

Available in 20 yd. rolls 36" or 42" wide.

Sheets—Cut to sizes ordered.

\* E.I. duPont trademark.





# REPRO-DRAFTING MEDIA AND SUPPLIES

## "AGEPROOF" DRAFTING FILMS

### 138-3 — 138M-3 — 138W-3 — 138-2 — 138M-2

The "AgeProof" films are the high-performance drafting media designed to meet the most exacting requirements of engineering documentation. They are particularly recommended when the drawings are subject to many revisions, reproduced frequently by diazo, and microfilmed for engineering records. Their polyester base contributes excellent durability, stability, and transparency.

- **BASE**

Polyester Film

- **THICKNESS**

Film base — 138 (M)-3	0.003"
— 138 (W)-3	0.003"
— 138 (M)-2	0.002"

- **SURFACES**

138-3	Matte one side
138M-3	Matte both sides
138W-3	Matte one side, white tint
138-2	Matte one side
138M-2	Matte both sides

- **DRAFTING**

The matte surfaces are extremely durable and are permanently bonded to the polyester base. Their degree of matte is controlled to yield the maximum of pencil line density and uniformity with a minimum of wear of the lead. Erasability and re-draw features are excellent. An exclusive "acceptor" surfacing assures the finest inking characteristics.

**Pencils (leads)** — Dietzgen No. 3145L, Dietzgen No. 3163LE, Dietzgen No. 3166 (Plastic).

**Pencil line erasers** — Dietzgen No. 3329, (Plastic), Dietzgen No. 3330; No. 200X fluid eradicator.

**Ink** — Pelikan "T," Catalog No. 2696T; Higgins "Black Magic."

**Ink line erasers** — Dietzgen No. 3329 (Moistened) Dietzgen No. 3330 (Moistened), No. 200X fluid eradicator.

- **PRINTING**

The matte surfaces are excellent for offset, letter press and silk screen printing.

- **REPRODUCTION**

The "Ageproof" films are particularly recommended for drawings which are to be microfilmed. They also make singularly superior originals for diazo, photographic, etc. reproductions, either for "action" copy or successive generation reproducibles.

- **DURABILITY**

These polyester based films are characterized by exceptionally high fold and tear strength. For drawings which are to be taken in and out of the files many times, revised, frequently reproduced, etc., the "AgeProof" films are low cost insurance for continuing active usefulness.

- **STABILITY**

**Thermal Coefficient of Expansion:**

Maximum 0.00001 inches per inch per degree Fahrenheit.

**Humidity Coefficient of Expansion:**

Maximum 0.00001 inches per inch per percent relative humidity.

**Permanent Shrinkage:**

Less than 0.05% after exposure to a temperature of 180°F. for one hour.

(over, please)

CPYRGHT

**"AGEPROOF" DRAFTING FILMS****138-3 — 138M-3 — 138W-3 — 138-2 — 138M-2 (Cont.)****• GOVERNMENT SPECIFICATIONS**

The "AgeProof" films meet or surpass all of the requirements of L-P-00519(a).

	Type	Class
138-3	I	1
138M-3	II	1
138W-3	I	1
138-2	I	1
138M-2	II	1

**• AVAILABILITY**

These products are available as "standards," in the following widths:

**20 and 50 Yard Rolls**

138-3	30" — 34" — 36" — 42"
138M-3	30" — 34" — 36" — 42" — 48"
138W-3	34" — 36" — 42"
138-2	36" — 42"
138M-2	36"

Cut sheets are available from these widths.

Also available:

Gridded

Printed forms — standard and roll size

DIETZGEN

## REPRO-DRAFTING MEDIA AND SUPPLIES

CPYRGHT

**No. F-247-BS3C — SEMI-OPAQUE IMAGE REPRODUCIBLE FILM**

This "DriPrint" film is a unique type of engineering intermediate. The maximum available actinic opacity of its print image is deliberately formulated to be less than that of an ink or solid pencil line. As a result, subsequent diazo paper copies will exhibit a weak color density of the reproduced image, and strong color density of the added drafting information.

This technique and intermediate are extremely useful for providing print copies having contrasting elements to aid legibility and facilitate interpretation. Areas of application include complex printed circuit and board component drawings, architectural layouts of utilities and floor plans, proposed changes in plant layouts, wiring diagrams, assembly drawings, engineering changes (maps, highway developments, etc.).

- **BASE**

Polyester Film

- **THICKNESS**

Film base — 0.003"

- **SENSITIZER**

Diazotype — Ammonia developed

- **SHELF LIFE (Unopened Package)**

Guaranteed for three months after shipment from the Factory

- **IMAGE COLOR**

Blue — Sepia

- **SURFACES**

Matte, drafting, one side; sensitizer on glossy side

- **PRINTING SPEED**

Medium

- **REPRINT SPEED**

High transparency of base film assures good speeds in making diazo print copies or second generation reproducibles.

- **ERADICATION**

**Recommended Image Eradicators:**

- (a) Solvent type eradicator fluid, Dietzgen No. N-248-C
- (b) Steel eraser (Dietzgen No. 3387 or pen knife)

- **DRAFTING**

The matte drafting surface is extremely durable and permanently bonded to the polyester base. It is designed for both pencil and ink. We recommend:

**Pencils (leads)** — Dietzgen No. 3145-L, Dietzgen No. 3163-LE, Dietzgen No. 3166 (Plastic).

**Pencil line erasers** — Dietzgen No. 3329 (Plastic), Dietzgen No. 3330; No. 200-X fluid eradicator.

**Ink** — Pelikan "T," Catalog No. 2696-T; Higgins "Black Magic," Catalog No. 2730.

**Ink line erasers** — Dietzgen No. 3329 (Moistened), Dietzgen No. 3330 (Moistened), No. 200-X fluid eradicator.

- **STABILITY**

**Thermal Coefficient of Expansion:**

Maximum 0.000015 inches per inch per degree Fahrenheit.

(over, please)

CPYRGHT

**No. F-247-BS3C — SEMI-OPAQUE IMAGE REPRODUCIBLE FILM (Cont.)**

**Humidity Coefficient of Expansion:**

Maximum 0.000012 inches per inch per percent relative humidity.

**Permanent Shrinkage:**

Shrinkage is less than 0.05% when print exposed to temperature of 180°F. for one hour.

**Processing Change:**

Print will not vary more than 0.03% in size from original when exposed in vacuum frame and developed in standard ammonia processor.

**Note:** The manner of storage of these films can influence their stability features. Where maximum "scale-holding" is required, particularly for reproductions from roll size drawings, we recommend that the films be permitted to stabilize themselves in a "relaxed" flat condition for at least 8 hours before print making.

**Image:**

The printed image is extremely resistant to fade, either by ultraviolet light or by

heat. Under normal conditions of filing and storage, it can be considered "permanent." Although some background discoloration can develop after many re-printings, the image and, therefore, the engineering data are always retrievable.

A conservative estimate of the print life under normal conditions of handling, filing, etc., would be at least ten years. The chemicals in the emulsion are not prone to migrate into the usual papers, cloths, etc., which may be in close contact with it in the files.

• **GOVERNMENT SPECIFICATIONS**

There are no specifications for this type of product.

• **AVAILABILITY**

Available in 20 and 50 yard rolls, 42" width. Also, cut sheets from this width.

**DIETZGEN****REPRO-DRAFTING MEDIA AND SUPPLIES**

CPYRGHT

**No. F-247-2C—"DRIPRINT" SEPIA FILM INTERMEDIATE**

The distribution of engineering design information is one of the chief functions of reproducible (intermediates). Dietzgen's No. F-247-2C combines the features of polyester film durability and diazo coating technology to provide an economical and versatile product for this purpose. Its minimum thickness and weight are particularly appreciated when serious consideration is given to mailing costs and filing space.

- **BASE**

Polyester film

- **THICKNESS**

Film base — 0.002"

- **SENSITIZER**

Diazotype — Ammonia developed

- **SHELF LIFE (Unopened Package)**

Guaranteed for three months after shipment from the Factory

- **IMAGE COLOR**

Dark sepia

- **SURFACES**

Matte one side, sensitizer on glossy side

- **PRINTING SPEED**

Slightly slower than standard sepia velums — NABDC speed rating 35%

- **IMAGE OPACITY (ACTINIC)**

Exceptionally high — recommended where maximum reprint quality is required

- **ERADICATION**

Recommended Image Eradicators:

- (a) Semi-gritty eraser, such as Dietzgen No. 3339

- (b) Solvent type eradicant fluid, Dietzgen No. N-248-C

- (c) Bleach type eradicant fluid, Dietzgen No. 248-T

- **REPRINT SPEED**

High transparency of base film assures good reprint speed (diazo)

- **DRAFTING**

Pencils (leads):

- Dietzgen No. 3145-L (1H, 2H, 3H)
- Dietzgen No. 3163-LE (1, 2)
- Dietzgen No. 3166 (Plastic) (1, 2)

Pencil Line Erasers:

- Dietzgen No. 3329 (Plastic)
- Dietzgen No. 3330
- Dietzgen No. 200-X (Fluid)

Ink

- Pelikan "T" No. 2696-T

Ink Line Erasers:

- Dietzgen No. 3329 (moistened)
- Dietzgen No. 3330 (moistened)
- Dietzgen No. 200-X (fluid type)

- **GOVERNMENT SPECIFICATIONS**

Meets requirements of current L-F-340; Type II, Subtype C, Class 4, Style 1B, with the exception that it is not fully "inter-filable." \*

\* Not recommended for filing in close contact with brownline (VanDyke) prints.

DIETZGEN

## REPRO-DRAFTING MEDIA AND SUPPLIES

CPYRGHT

~~GF-247-E2 and GF-247-CE2 — ADHESIVE-BACKED "DRIPRINT" FILMS~~

These products are provided for application in various types of "template" drafting. "Stick-ons" can be prepared quickly from translucent masters on standard ammonia diazo equipment.

Their usefulness is particularly recognized in the preparation of maps, manuals, title blocks, printed circuits, wiring diagrams, assembly drawings, plant lay-outs, flow charts and architectural plans.

A novel application is the transfer of tooling information from undimensioned drawings to metal sheets. The dimensional stability of their polyester base assures accurate scale for indicating drill points, cutting, folding, etc.

- **BASE**

Polyester Film

- **THICKNESS**

Film Base — 0.002"

- **SENSITIZER**

Diazotype — Ammonia developed

- **SHELF LIFE (Unopened Package)**

Guaranteed for three months after shipment from the Factory.

- **IMAGE COLOR**

Ebony

- **SURFACES**

GF-247-E2 — Matte — Sensitized  
GF-247-CE2 — Clear — Sensitized

- **PRINTING SPEED**

Slow — NABDC Speed rating 28%

- **IMAGE OPACITY**

Good

- **TRANSPARENCY**

Fairly good — requires some care to control "ghosting."

- **STABILITY**

Excellent. Similar to polyester drafting media.

**Image:**

The printed image is extremely resistant to fade, either by ultraviolet light or by heat. Under normal conditions of filing and storage, it can be considered "permanent." Although some background discoloration can develop after many re-printings, the image and, therefore, the engineering data are always retrievable.

A conservative estimate of the print life under normal conditions of handling, filing, etc., would be at least ten years. The chemicals in the emulsion are not prone to migrate into the usual papers, cloths, etc., which may be in close contact with it in the files.

- **AVAILABILITY**

Available in 10 and 20 yard rolls — 36" width.

Also, cut sheets from this width.

DIETZGEN

## REPRO-DRAFTING MEDIA AND SUPPLIES

COPYRIGHT

**No. F247-3C — "DRIPRINT" SEPIA IMAGE FILM INTERMEDIATE**

This "Ageproof" film combines the finest drafting surface and maximum diazo image density on a rugged, dimensionally stable polyester film base. The high actinic opacity of its sepia line makes this product an exceptionally good intermediate for upgrading the reprint quality of pencil line drawings. Also, it closely duplicates the opacity of ink or tape originals (printed circuit artwork, maps, charts, etc.).

- **BASE**

Polyester Film

- **THICKNESS**

Film base — 0.003"

- **SENSITIZER**

Diazotype — Ammonia developed

- **SHELF LIFE (Unopened Package)**

Guaranteed for three months after shipment from the Factory.

- **IMAGE COLOR**

Sepia

- **SURFACES**

Matte, drafting, one side; sensitizer on glossy side.

- **PRINTING SPEED**

Slow — NABDC Speed Rating 28%

- **IMAGE OPACITY (Actinic)**

Permits finest reprint quality (diaz, photographic, etc.)

- **REPRINT SPEED**

High transparency of base film assures good speeds in making diazo print copies or second generation reproducibles.

- **ERADICATION**

Recommended Image Eradicators:

- Solvent type eradicator fluid, Dietzgen No. N248C
- Steel eraser (Dietzgen No. 3387 or pen knife)

- **DRAFTING**

The matte drafting surface is extremely durable and permanently bonded to the polyester base. It is designed for both pencil and ink. We recommend:

**Pencils (leads):**

Dietzgen No. 3145L, Dietzgen No. 3163LE, Dietzgen No. 3166 (Plastic).

**Pencil line erasers:**

Dietzgen No. 3329 (Plastic), Dietzgen No. 3330; No. 200X fluid eradicator.

**Ink:**

Pelikan T, Catalog No. 2696T; Higgins "Black Magic."

**Ink line erasers:**

Dietzgen No. 3329 (Moistened), Dietzgen No. 3330 (Moistened), No. 200X fluid eradicator.

- **STABILITY**

**Thermal Coefficient of Expansion:**

Maximum 0.000015 inches per inch per degree Fahrenheit.

**Humidity Coefficient of Expansion:**

Maximum 0.000012 inches per inch per percent relative humidity.

**Permanent Shrinkage:**

Shrinkage is less than 0.05% when print exposed to temperature of 180°F. for one hour.

**Processing Change:**

Print will not vary more than 0.03% in size from original when exposed in vacuum frame and developed in standard ammonia processor.

(over, please)

**No. F247-3C — "DRIPRINT" SEPIA IMAGE FILM INTERMEDIATE (Cont.)****Image:**

The printed image is extremely resistant to fade, either by ultraviolet light or by heat. Under normal conditions of filing and storage, it can be considered "permanent." Although some background discoloration can develop after many re-printings, the image and, therefore, the engineering data are always retrievable.

A conservative estimate of the print life under normal conditions of handling, filing, etc., would be at least ten years. The chemicals in the emulsion are not prone to migrate into the usual papers, cloths, etc., which may be in close contact with it in the files.

**• GOVERNMENT SPECIFICATIONS**

Meets requirements of current L-F-340; Type II, Subtype C, Class 4, Style 1B (with the exception that it is not fully interfilable with brownline (VanDyke) prints).

**• AVAILABILITY**

Available in 20 and 50 yard rolls in following widths:

36" — 42" — 54"

Also, cut sheets from these widths.



DIETZGEN

## REPRO-DRAFTING MEDIA AND SUPPLIES

CPYRGHT

Nos. F247E-5C and F247E-7C

**"PERMASCALE" BLACKLINE FILM INTERMEDIATES**

These "DriPrint" films are ideal when there is a need for reproducibles from un-dimensioned drawings, accurate tooling and loft drawings, printed circuit art work, and maps. They reproduce the original drawings with extreme fidelity and retain maximum dimensional stability. Their combination of features fulfill the concept "second originals which become new drawings."

- **BASE**

Polyester Film

- **THICKNESS**

Film base — F247E-5C — 0.005"  
— F247E-7C — 0.0075"

- **SENSITIZER**

Diazotype — Ammonia developed

- **SHELF LIFE (Unopened Package)**

Guaranteed for three months after shipment from the Factory

- **IMAGE COLOR**

Ebony

- **SURFACES**

Matte, drafting, one side; sensitizer on glossy side

- **PRINTING SPEED**

Slow — NABDC Speed Rating 28%

- **IMAGE OPACITY (Actinic)**

Permits excellent reprint quality (diaz, photographic, etc.)

- **REPRINT SPEED**

High transparency of base film assures good speeds in making diazo print copies or second generation reproducibles.

- **ERADICATION**

Recommended Image Eradicators:

- Solvent type eradicator fluid, Dietzgen No. N248C
- Steel eraser (Dietzgen No. 3387 or pen knife)

- **DRAFTING**

The matte drafting surface is extremely durable and permanently bonded to the polyester base. It is designed for both pencil and ink. We recommend:

**Pencils (leads)** — Dietzgen No. 3145L, Dietzgen No. 3163LE, Dietzgen No. 3166 (Plastic).

**Pencil line erasers** — Dietzgen No. 3329 (Plastic), Dietzgen No. 3330; No. 200X fluid eradicator.

**Ink** — Pelikan "T," Catalog No. 2696T; Higgins "Black Magic."

**Ink line erasers** — Dietzgen No. 3329 (Moistened) Dietzgen No. 3330 (Moistened), No. 200X fluid eradicator.

- **STABILITY**

**Thermal Coefficient of Expansion:**

Maximum 0.000015 inches per inch per degree Fahrenheit.

**Humidity Coefficient of Expansion:**

Maximum 0.000012 inches per inch per percent relative humidity.

**Permanent Shrinkage:**

Shrinkage is less than 0.05% when print exposed to temperature of 180°F for one hour.

**Processing Change:**

Print will not vary more than 0.03% in size from original when exposed in vacuum frame and developed in standard ammonia processor.

(over, please)

CPYRGHT

**Nos. F247E-5C and F247E-7C****"PERMASCALE" BLACKLINE FILM INTERMEDIATES (Cont.)**

**Note:** The manner of storage of these films can influence their stability features. Where maximum "scale-holding" is required, particularly for reproductions from roll size drawings, we recommend that the films be permitted to stabilize themselves in a "relaxed" flat condition for at least 8 hours before print making.

**Image:**

The printed image is extremely resistant to fade, either by ultraviolet light or by heat. Under normal conditions of filing and storage, it can be considered "permanent." Although some background discoloration can develop after many re-printings, the image and, therefore, the engineering data are always retrievable.

A conservative estimate of the print life under normal conditions of handling, filing, etc., would be at least ten years. The

chemicals in the emulsion are not prone to migrate into the usual papers, cloths, etc., which may be in close contact with it in the files.

**• GOVERNMENT SPECIFICATIONS**

Meets requirements of current L-F-340; Type II, Subtype C, Class 4, Style 1A (with the exception that it is not fully interfilable with brownline (VanDyke) prints).

**• AVAILABILITY**

Available in 20 and 50 yard rolls in following widths:

F247E-5C	F247E-7C
36" — 42" — 48"	36" — 42"

Also, cut sheets from these widths.

DIETZGEN

REPRO-DRAFTING MEDIA AND SUPPLIES

CPYRGHT

**SUPER - FAST "DRIPRINT" SEPIA VELLUM INTERMEDIATE — No. 244SF**

For many years, sepia vellums have been the most popular type of intermediates for engineering drawings and related documents. Criteria of performance have included such properties as re-print quality, re-print speed, eradication, etc. Under certain conditions, however, the factor of printing speed becomes extremely important. For example, when the available printing equipment has a low intensity light source (such as 40 watt lamp or fluorescent tubes) the standard slow speed sepias are difficult to control for correct exposure. The 244SF solves this problem as well as those associated with reproducing originals having very low translucency. For high volume intermediate distribution requirements, the faster printing of the 244SF can also provide economies in operator labor costs.

**• BASE**

100% rag paper; "Age-Proof" transparentized, 15.5 lbs.; blue tint.

**• SENSITIZER**

Diazotype — ammonia developed.

**• PRINTING SPEED**

Approximately twice that of standard sepias. NABDC speed rating — 80% (standard 244 is 40%).

**• IMAGE OPACITY (ACTINIC)**

Yields good, legible, contrasty diazo print copies. Not recommended for successive generation intermediate printing.

**• ERADICATION**

Recommended image eradicator — DIETZGEN No. 248F.

**• IMAGE COLOR**

Dark Sepia.

**• RE-PRINT SPEED**

Good Transparency of vellum base affords excellent speed of re-printing.

**• SHELF LIFE**

Guaranteed for three (3) months after shipment from the factory.

**• SPECIFICATIONS**

The current Federal Specification for Diazotype papers, UU-P-221(a), contains no provision for an intermediate having this high printing speed.

DIETZGEN

## REPRO-DRAFTING MEDIA AND SUPPLIES

CPYRGHT

**PERMA - SCALE DRAFTING FILMS — Nos.: 138 (M) - 5 and 138 - 7**

The performance values of certain types of drawings are dependent on the dimensional stability of the drafting media as well as the accuracy of the drawings themselves. These types include un-dimensioned tooling lay-outs, loft drawings, printed circuit artwork, maps, etc. Dietzgen's Perma-Scale films meet the stringent stability requirements of these and similar processes in addition to their feature of excellent drafting qualities.

- **STABILITY**

**Thermal Coefficient of Expansion:** 0.00001 inches per inch per degree Fahrenheit.

**Humidity Coefficient of Expansion:** 0.00001 inches per inch per percent relative humidity.

**Permanent Shrinkage:** Less than 0.05% after exposure to a temperature of 180° F. for one hour.

**Flatness:** Exceptionally good—unique processing assures complete absence of waviness, ripples, "baggy" areas, etc.

**Note:** The manner of storage of these films can influence their apparent scale-holding features. We recommend that sheets cut from rolls be permitted to stabilize themselves in a "relaxed" flat condition for about twenty-four hours before use.

- **GOVERNMENT SPECIFICATIONS**

The Perma-Scale films meet or surpass all of the requirements of L-P-00519(a).

	TYPE	CLASS
138-5 .....	I	1
138M-5 .....	II	1
138-7 .....	I	1

- **DRAFTING**

The matte drafting surface is extremely durable and permanently bonded to the polyester base. It is designed for both pencil and ink. We recommend:

**Pencils (leads)** — Dietzgen No. 3145L, Dietzgen No. 3163LE, Dietzgen No. 3166 (Plastic).

**Pencil line erasers** — Dietzgen No. 3329 (Plastic), Dietzgen No. 3330, No. 200X fluid eradicator.

**Ink** — Pelikan T, Higgins "Black Magic."

**Ink line erasers** — Dietzgen No. 3329 (Moistened), Dietzgen No. 3330 (Moistened), No. 200X fluid eradicator.

- **THICKNESS**

The 138(M)-5 media have a polyester film base thickness of 0.005". The 138-7 media have a 0.0075" thick base.

The two thicknesses are made available to satisfy the particular needs of design groups. Handling qualities and previous experience dictate the selection.

- **REPRODUCTION**

Excellent original media for all types of subsequent reproductions including:

Transmission printing (diaz, photographic, etc.).

Camera (photographic, electrostatic).

Microfilming.

**Note:** The exceptional flatness of these films assures maximum fidelity in reproductions (second originals and photo-templates) where straightness and direction of lines, planarity and exact dimensions are critical.

- **AVAILABILITY**

The catalogued availability of the Perma-Scale Films is as follows:

138-5—.005", 36", 42", 48" widths in 20- and 50-yd. rolls, matte one side.

138(M)-5—.005", 54", 62" widths in 20- and 50-yd. rolls, matte both sides.

138-7—.0075", 36", 48" widths in 20- and 50-yd. rolls, matte one side.

Cut sheet sizes are available from these widths. Also, pre-printed formats, to Military and/or Company standards, are available in conventional and roll sizes up to 54" x 144".

**DIETZGEN****REPRO-DRAFTING MEDIA AND SUPPLIES**

CPYRGHT

**No. F247E-3C — "DRIPRINT" BLACKLINE FILM INTERMEDIATES**

This "Ageproof" film is the ideal diazotype reproducible material for engineering drawings, maps, flow diagrams, line illustrations and half-tones. It combines the finest drafting surface and an excellent blackline sensitizer on a rugged, dimensionally stable polyester film.

- **BASE**

Polyester Film

- **THICKNESS**

Film base — 0.003"

- **SENSITIZER**

Diazotype — Ammonia developed

- **SHELF LIFE (Unopened Package)**

Guaranteed for three months after shipment from the Factory

- **IMAGE COLOR**

Ebony

- **SURFACES**

Matte, drafting, one side; sensitizer on glossy side

- **PRINTING SPEED**

Slow — NABDC Speed Rating 28%

- **IMAGE OPACITY (Actinic)**

Permits excellent reprint quality (diazotype, photographic, etc.)

- **REPRINT SPEED**

High transparency of base film assures good speeds in making diazo print copies or second generation reproducibles.

- **ERADICATION**

**Recommended Image Eradicators:**

- Solvent type eradicant fluid, Dietzgen No. N248C
- Steel eraser (Dietzgen No. 3387 or pen knife)

- **DRAFTING**

The matte drafting surface is extremely durable and permanently bonded to the polyester base. It is designed for both pencil and ink. We recommend:

**Pencils (leads)** — Dietzgen No. 3145L, Dietzgen No. 3163LE, Dietzgen No. 3166 (Plastic).

**Pencil line erasers** — Dietzgen No. 3329 (Plastic), Dietzgen No. 3330; No. 200X fluid eradicant.

**Ink** — Pelikan T, Catalog No. 2696; Higgins "Black Magic."

**Ink line erasers** — Dietzgen No. 3329 (Moistened), Dietzgen No. 3330 (Moistened), No. 200X fluid eradicant.

- **STABILITY**

**Thermal Coefficient of Expansion:**

Maximum 0.000015 inches per inch per degree Fahrenheit.

**Humidity Coefficient of Expansion:**

Maximum 0.000012 inches per inch per percent relative humidity.

**Permanent Shrinkage:**

Shrinkage is less than 0.05% when print exposed to temperature of 180°F. for one hour.

**Processing Change:**

Print will not vary more than 0.03% in size from original when exposed in vacuum frame and developed in standard ammonia processor.

(over, please)

CPYRGHT

**No. F247E-3C — "DRIPRINT" BLACKLINE FILM INTERMEDIATES (Con't.)**

**Image:**

The printed image is extremely resistant to fade, either by ultraviolet light or by heat. Under normal conditions of filing and storage, it can be considered "permanent." Although some background discoloration can develop after many re-printings, the image and, therefore, the engineering data are always retrievable.

A conservative estimate of the print life under normal conditions of handling, filing, etc., would be at least ten years. The chemicals in the emulsion are not prone to migrate into the usual papers, cloths, etc., which may be in close contact with it in the files.

• **GOVERNMENT SPECIFICATIONS**

Meets requirements of current L-F-340; Type II, Subtype C, Class 4, Style 1A (with the exception that it is not fully interfilable with brownline (VanDyke) prints).

• **AVAILABILITY**

Available in 20 and 50 yard rolls in following widths:

30" — 36" — 42" — 48"

Also, cut sheets from these widths.

Order your Dietzgen polyester Drafting Film from the following selection of thickness and drafting surface combinations. There is a

drafting film that is just right for your personal preference and individual requirement.

CATALOG NUMBER	NAME	BASE THICKNESS	ROLL		SURFACE
			Width	Length	
138-2	Ageproof®	.002"	36" 42"	20 and 50 yards	Matte one side
138M-2	Ageproof	.002"	36"	20 and 50 yards	Matte both sides
138-3	Ageproof	.003"	30" 34" 36" 42"	20 and 50 yards	Matte one side
138M-3	Ageproof	.003"	30" 34" 36" 42" 48"	20 and 50 yards	Matte both sides
138W-3	Ageproof	.003"	34" 36" 42"	20 and 50 yards	Matte one side, white tint

CATALOG NUMBER	NAME	GRID SCALE	THICKNESS	ROLL		SURFACE
				Width	Length	
138-3-8G	Ageproof®	8 x 8	.003"	36" 42"	20 and 50 yards	Matte one side
138-3-10G	Ageproof	10 x 10	.003"	36" 42"	20 and 50 yards	Matte one side

CATALOG NUMBER	NAME	BASE THICKNESS	ROLL		SURFACE
			Width	Length	
X138-3	Ageproof®	.003"	36" 42" 48"	20 and 50 yards	Matte one side
X138M-3	Ageproof	.003"	54"	20 and 50 yards	Matte both sides

CATALOG NUMBER	NAME	BASE THICKNESS	ROLL		SURFACE
			Width	Length	
138-5	Perma Scale®	.005"	36" 42" 48"	20 and 50 yards	Matte one side
138M-5	Perma Scale	.005"	54" 62"	20 and 50 yards	Matte both sides
138-7	Perma Scale	.0075"	36" 48"	20 and 50 yards	Matte one side

PENCILS (Leads)	PENCIL LINE ERASERS	INK	INK LINE ERASERS
Dietzgen 3145L or Dietzgen 3163LE or Dietzgen 3166 (plastic)	Dietzgen 3329 (plastic) or Dietzgen 3330 or Dietzgen 200X (fluid eradicator)	Dietzgen 2696T (Pelikan "T") or Dietzgen 2730 (Higgins "Black Magic")	Dietzgen 3329 (moistened) or Dietzgen 3330 (moistened) or Dietzgen 200X (fluid eradicator)

Complete information and prices for all Drafting, as well as Reproduction Sensitized Polyester Films may be obtained from your nearest Dietzgen office . . . ask for the

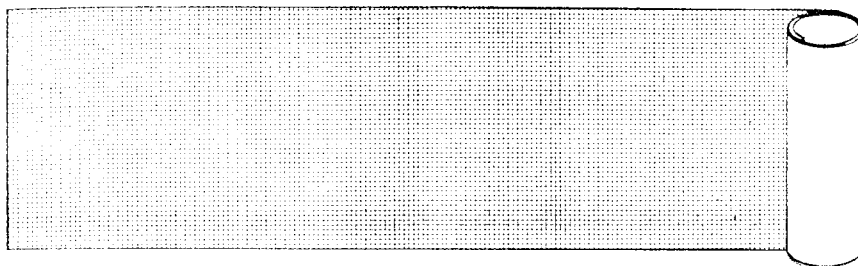
## TEST YOUR SAMPLE OF DIETZGEN POLYESTER FILM

**TEST THE DRAWING SURFACE.** It is ideal for pencil, ink or typewriter.

**TEST THE ERASABILITY.** See how the line comes out without a trace of a ghost.

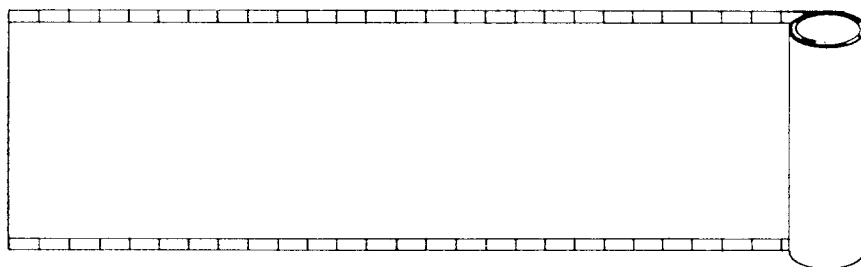
**TEST THE TOUGHNESS.** Try to tear Ageproof or Perma Scale Film. Give it the roughest type of handling it will ever receive. Prove to yourself that Dietzgen Polyester Films will withstand usage that would destroy any other media.

**TEST THE PRINTMAKING QUALITIES.** Discover the extra sharp, extra legible prints you get because of the transparent film.



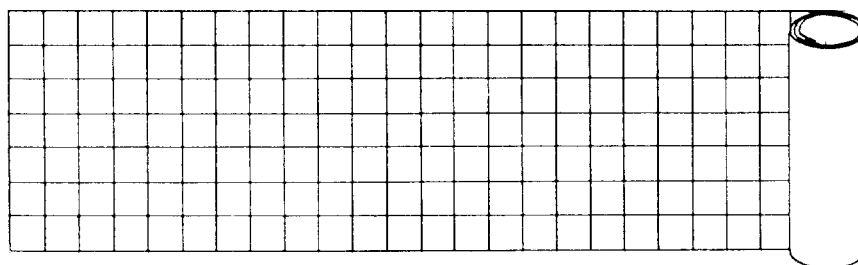
### **"NO PRINT" GRID FILMS 8 x 8 and 10 x 10/Inch**

Ageproof drafting film is available with "no print" grid lines which appear as light blue lines on the reverse side of the file. These serve as a convenient scale guide in creating all forms of engineering drawings, and in lettering and dimensioning drawings to meet microfilm legibility requirements. Since the grid does not reproduce, prints from the original drawing show only the drawn pencil lines clear and sharp.



### **"Pre-Printed Borderline" film in continuous rolls**

Ageproof drafting film is also available in continuous rolls with pre-printed borders (top and bottom) and zone marks every 5.5 inches. This convenient product is a real time saver for use in roll size drawing. The draftsman merely rolls off the required length, draws the vertical borders, attaches a preprinted "decals type" title block and his format is complete.

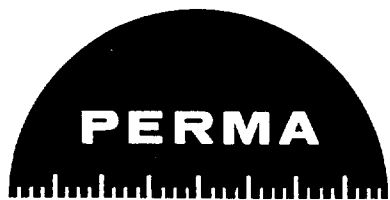


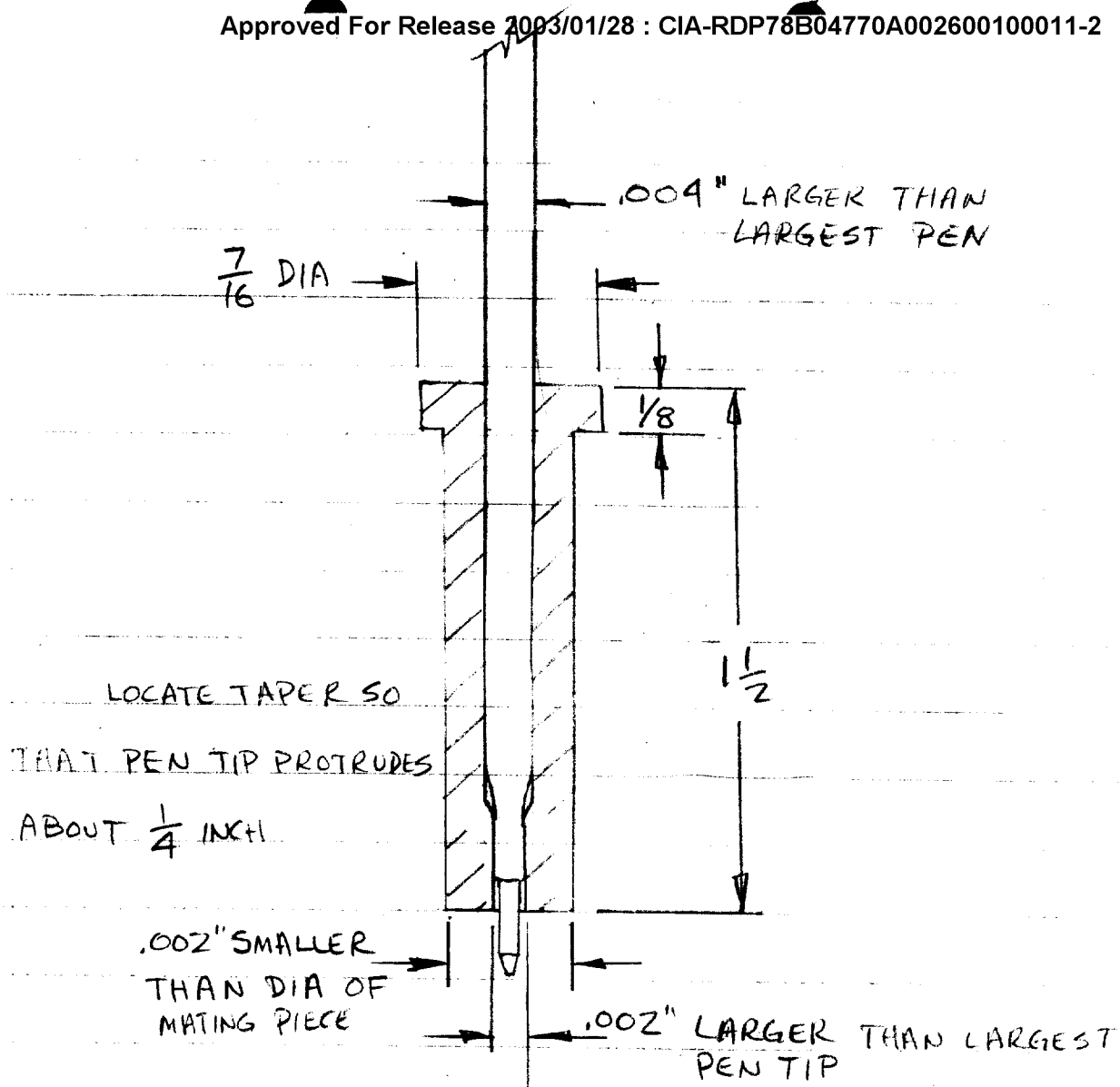
### **"Precision Grid Films" 5" and 10" accurate grid scale**

All Super Flat Ageproof and Perma Scale drafting films are now available in preprinted accurate grids for use in undimensioned drawings, aircraft lofting, automotive layout, mapping, etc. The extreme accuracy of the printed grid combined with the dimensional stability of Dietzgen polyester films makes this product the ideal media for all applications involving precise dimensioning and establishment of accurate reference points. This product is available in rolls or convenient "roll size" sheets.



CPYRGHT



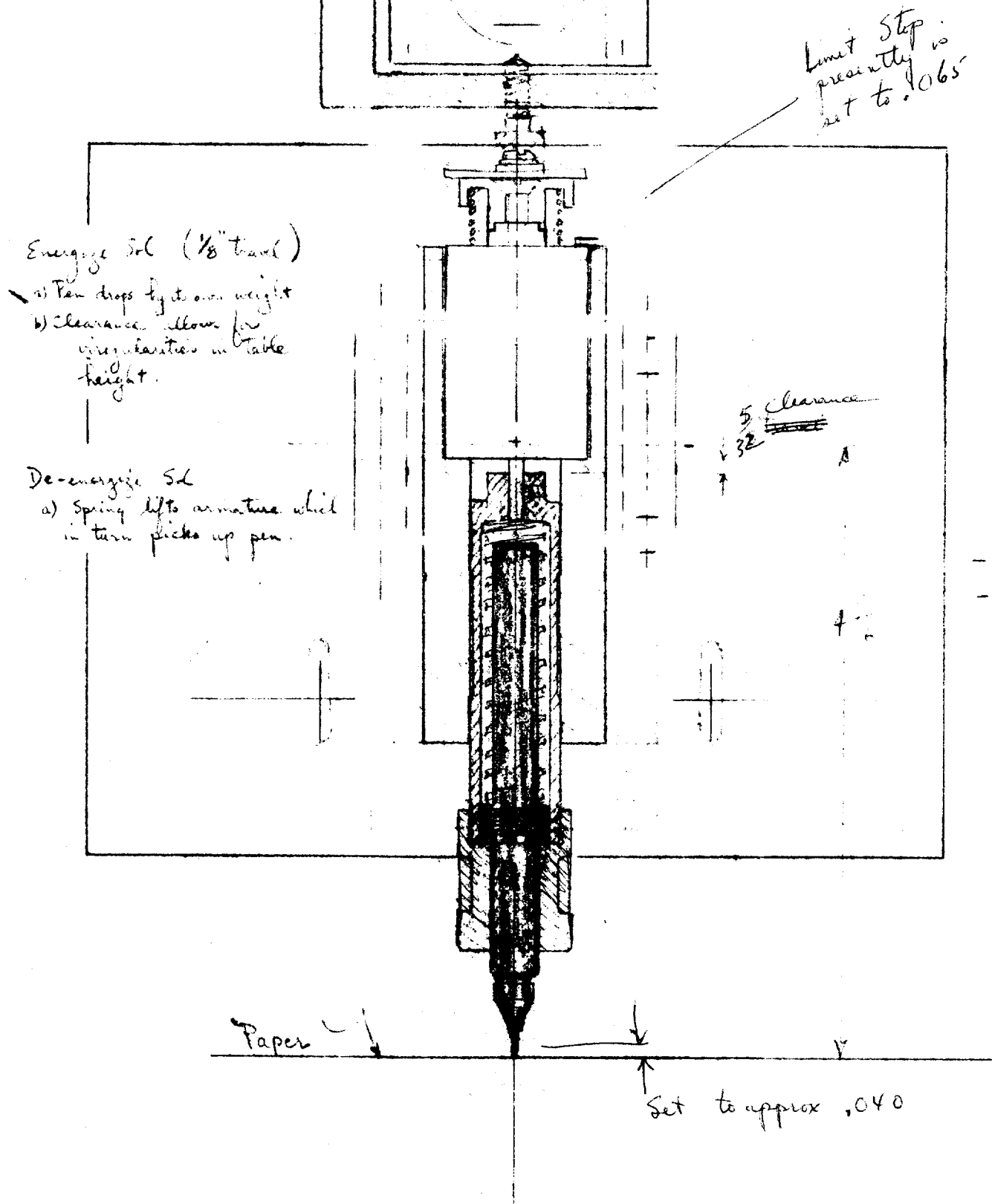


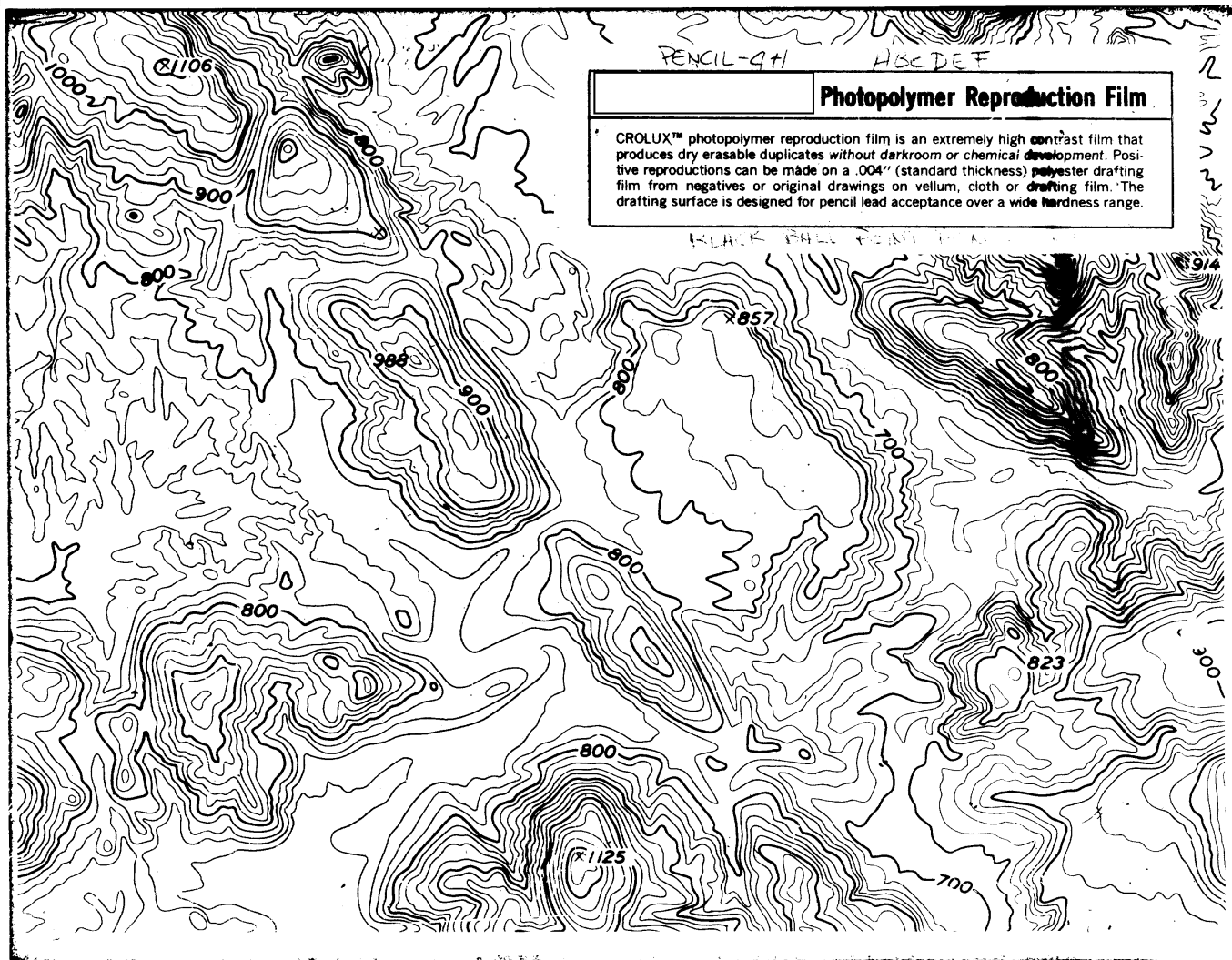
MTL - ALUMINUM

1 REQ'D

PROJECT 09027

STAT





STAT

It costs 2 1/2 times more - but outlasts 100 other points to



**Draws over a mile on Mylar\***

**Made in U.S.A.**

For drafting on film a revolutionary "breakthrough" was made with KOH-I-NOOR RAPIDOGRAPH JEWEL POINT!

No longer does the draftsman have to worry about excessive **abrasion** of the drawing point he uses on drafting film. No longer does he have to replace the point after all-too-short service. The JEWEL POINT—with its unmatched **hardness**, and its self-polishing characteristics, outlasts all other points 100 to 1, and

draws "over a mile on Mylar\*" without scrape, chatter or skip.

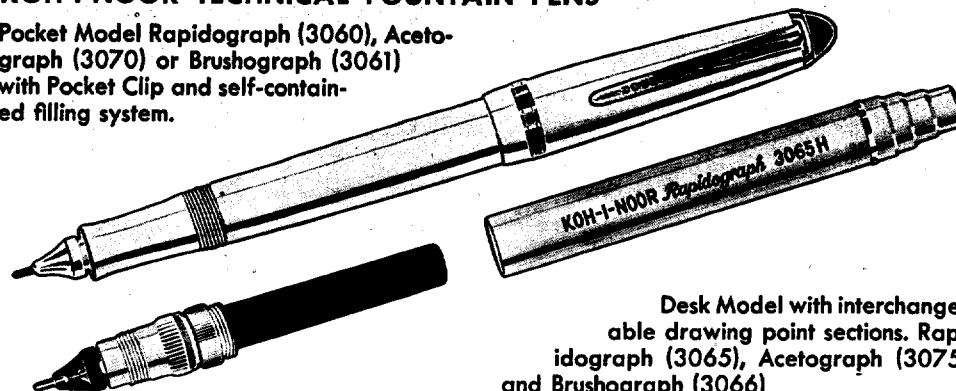
It's the draftsman's biggest bargain, as well as his finest tool for precision drafting on film. It actually **saves money** as well as improving the professional quality of his art!

For all **regular** drafting work on paper or cloth, the special hard-treated stainless steel Rapidograph or Acetograph points will remain the standard — unmatched by any competitive product.

\*DuPont registered trademark

**KOH-I-NOOR TECHNICAL FOUNTAIN PENS**

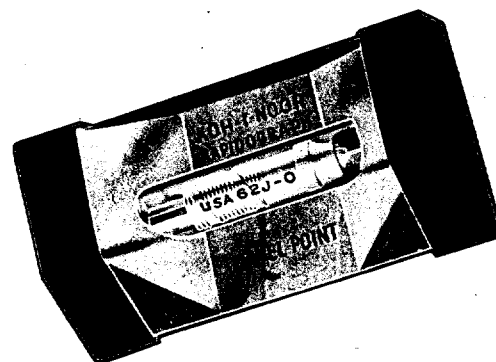
Pocket Model Rapidograph (3060), Acetograph (3070) or Brushograph (3061) with Pocket Clip and self-contained filling system.



Desk Model with interchangeable drawing point sections. Rapidograph (3065), Acetograph (3075) and Brushograph (3066)

**KOH-I-NOOR RAPIDOGRAPH TUNGSTEN CARBIDE POINT**

Developed for greatest abrasion resistance for use primarily with programmed automated drafting machines. Available in 7 precision line widths.

**KOH-I-NOOR RAPIDOGRAPH JEWEL POINT**

The universally accepted point for all drafting on film in 7 precision line widths.

# YOU GET MORE...

*from*

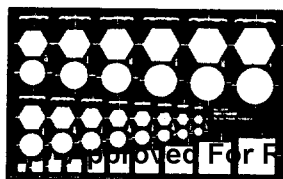
# KOH-I-NOOR

If you are a professional draftsman, engineer or architect you get anything and everything you may need or use—to do your finest precision drafting on paper, cloth or film. You get **quality** in instruments and materials. You get technical excellence in design. You get improved performance from perfected tools that enhance your own skill on the board.

KOH-I-NOOR is the company that knows your professional needs and concentrates on fulfilling them completely. Choose from and add to the only truly **comprehensive line of matched drafting materials** — choose KOH-I-NOOR.

**KOH-I-NOOR RAPIDOGUIDES**

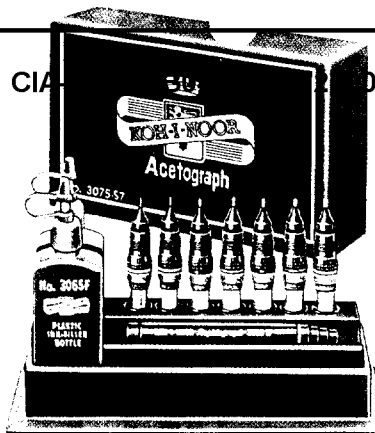
Precision cut lettering guides matched to all 7 Rapidograph point sizes with slanted edges of utmost smoothness elevated metal rails for fast lettering without smearing. 8 sizes ( $\frac{3}{4}$ " to  $\frac{3}{8}$ " letters).

**KOH-I-NOOR PRECISION TEMPLATES**

Precision cut for utmost smoothness. Squares, triangles, ellipses, quarter ellipses, radius guides, circles, tangent curves, etc.



7 interchangeable self contained, air tight, drawing point sections, holder, bottle of Rapido-Eze pen cleaner and ink filler bottle (also S-4 set of 4 points and S-3 set of 3 points).

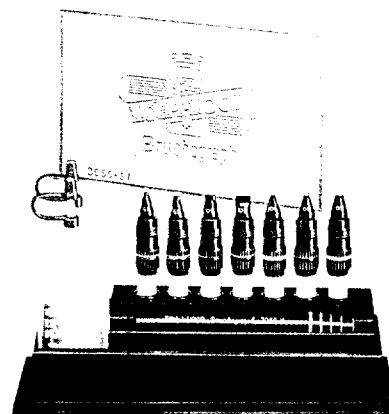


7 interchangeable self contained, air tight drawing point sections, holder, bottle of Rapido-Eze pen-cleaner and ink filler bottle (also S-4 set of 4 points and S-3 set of 3 points).



For Rapidograph black (67) and transparent (82); Acetograph (62) and Brushograph (61).

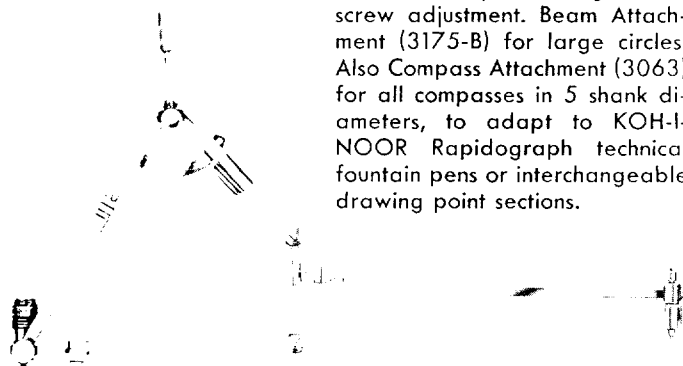
12 points in attractive plastic box with point key for convenient removal and insertion of points. Available in 7 sizes for Rapidograph and Acetograph pens, 4 flat sizes and 3 round sizes for Brushograph pens.



4 interchangeable flat brush sizes, 3 round brush sizes, holder, bottle of Rapido-Eze pen-cleaner and ink filler bottle (also S4 set).

## KOH-I-NOOR RAPIDOGRAPH BEAM COMPASSES and ACCESSORIES

(3175) with quick-setting, micro-screw adjustment. Beam Attachment (3175-B) for large circles. Also Compass Attachment (3063) for all compasses in 5 shank diameters, to adapt to KOH-I-NOOR Rapidograph technical fountain pens or interchangeable drawing point sections.

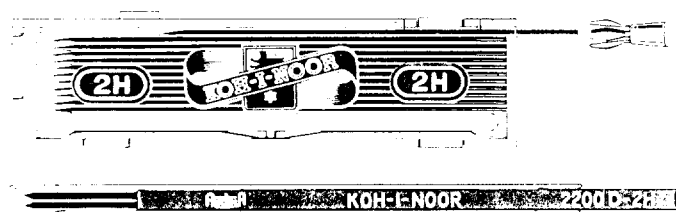


## KOH-I-NOOR DRAWING INKS



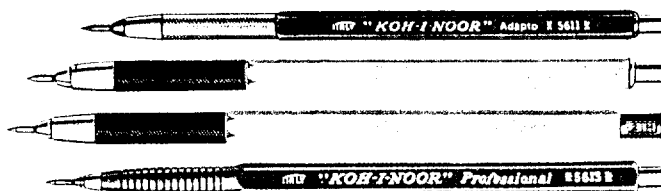
Waterproof, black ink "universal" for paper, cloth or film. Perfect adhesion; true, intense blackness; free-flowing, fast drying, non-clogging, 9 convenient containers! Also, KOH-I-NOOR Acetate Inks in 8 opaque colors, 7 transparent colors, and White Marking Ink. New! Transparent, waterproof colors of vivid hue. 3 primary, 3 secondary, and 2 supplementary colors. Other colors may be mixed from these. Plus opaque pigmented white (non-waterproof).

## KOH-I-NOOR DRAWING LEADS

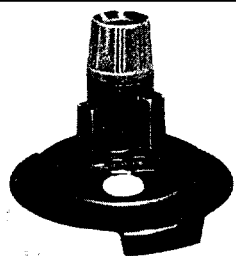


17 degrees of graphite, 6 degrees of KOH-I-LAR leads for drafting film, and Flexicolor plastic leads in 9 colors. Packed in automatic "Ejectomatic" dispenser, feeding lead into holder without touch of hand. Also available in plastic Duette slide box.

## KOH-I-NOOR LEAD HOLDERS



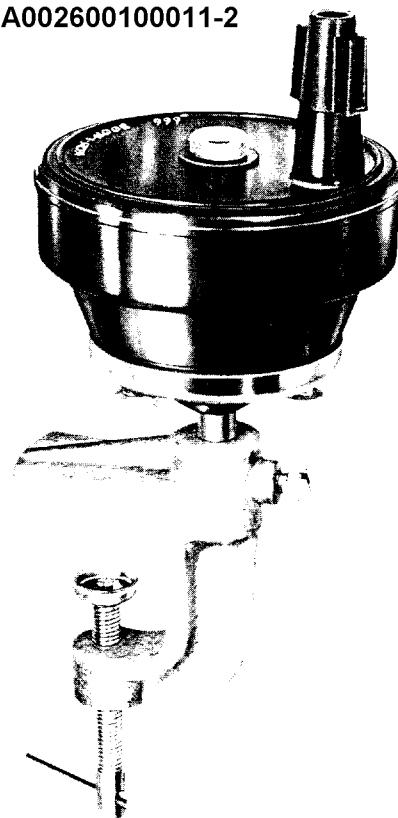
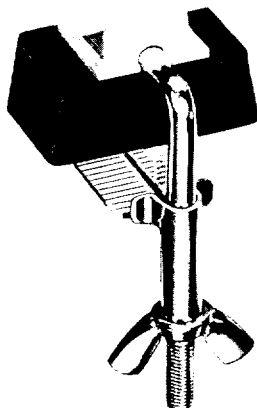
Lead-holders were pioneered and perfected by KOH-I-NOOR! World's widest selection. All-metal, slip-proof, turn-proof, wide opening Adapto-Clutch for all degrees and lead diameters.



**Choose from two ideal instruments for precision perfect points!** Each in its own class of "one-hand" operated lead pointers making all older models obsolete! Each unit with interchangeable nose pieces for KOH-I-NOOR and all other lead holders. Neat graphite dust storage and clean removal.

**New, improved KOH-I-NOOR "992"** with multi-position firm-hold "cradle clamp". Permanent "Dura-Last" cutter never requires replacement. The lead-pointer produces needle-sharp precision-perfect points from stubby to long-sharp, with smooth, easy operation. Utmost in rugged quality at low cost.

**The KOH-I-NOOR "999"—a new concept in lead pointing!** Lifetime tungsten carbide cutter never needs replacement, and gives clean precision perfect points in seconds. Clamp with ball setting adjusts instantly to "any-hold-position". Easy, smooth symmetrical turning motion of vertical holder eliminates awkward wrist motion. Pointer can be set for any point length.



## KOH-I-NOOR PLANS AHEAD . . . AND STAYS AHEAD!

**KOH-I-NOOR is the company that . . . . .**

- originated and pioneered the technical fountain pen
- originated the interchangeable drawing point sections
- originated the "adapto" all diameter lead holders
- originated the automatic "Ejectomatic" lead-dispenser
- developed "Universal" black drawing ink, Acetate inks, transparent colored inks, plus the first drawing ink cartridge
- scored a sensational scientific "breakthrough" with the Jewel Point
- introduced the first tungsten carbide drawing points.

This record of technical progress has been accomplished through constant research and development. The guiding principle remains responsibility. Responsibility to the men whose aims and skills lie in precision drafting . . . professional draftsmen, engineers, architects, students, teachers, technicians. KOH-I-NOOR is often **followed, imitated, copied**, but KOH-I-NOOR is always ahead in understanding and endeavoring to anticipate your professional needs, and concentrates on fulfilling them completely. Therefore look to KOH-I-NOOR for today's perfection and for tomorrow's improvements through continuous research.

See your KOH-I-NOOR dealer or, for descriptive literature, write to KOH-I-NOOR, INC., Bloomsbury 15, New Jersey.

# KOH-I-NOOR

*175th Anniversary Year! The Finest in Drawing Materials Since 1790.*



770  
of all tracing media, POST Polytex  
lasts longer, draws better, prints faster

# TEST POST POLYTEX FOR:

DIMENSIONAL  
STABILITY



TRANSPARENCY



DURABILITY



TRIPLE,  
FUSED COATING



PENCIL, INK  
ACCEPTANCE



ERASABILITY



WASHABILITY



PRINTING  
LATITUDE



This is a  
sample of  
126-3

POST  
STOCK No.

126-3  
126M-3  
126-5

BASE  
THICKNESS

.003"  
.003"  
.005"

DESCRIPTION

Matte front, glossy back  
Matte, both sides  
Matte front, glossy back

Available in all standard  
cut sheet sizes; also in  
30", 36", 42", and 54" roll  
widths, 20 yard lengths.

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of all tracing media, POST Polytex  
lasts longer, draws better, prints faster

# TEST POST POLYTEX FOR:

**DIMENSIONAL  
STABILITY**

•

**TRANSPARENCY**

•

**DURABILITY**

•

**TRIPLE  
FUSED COATING**

•

**PENCIL, INK  
ACCEPTANCE**

•

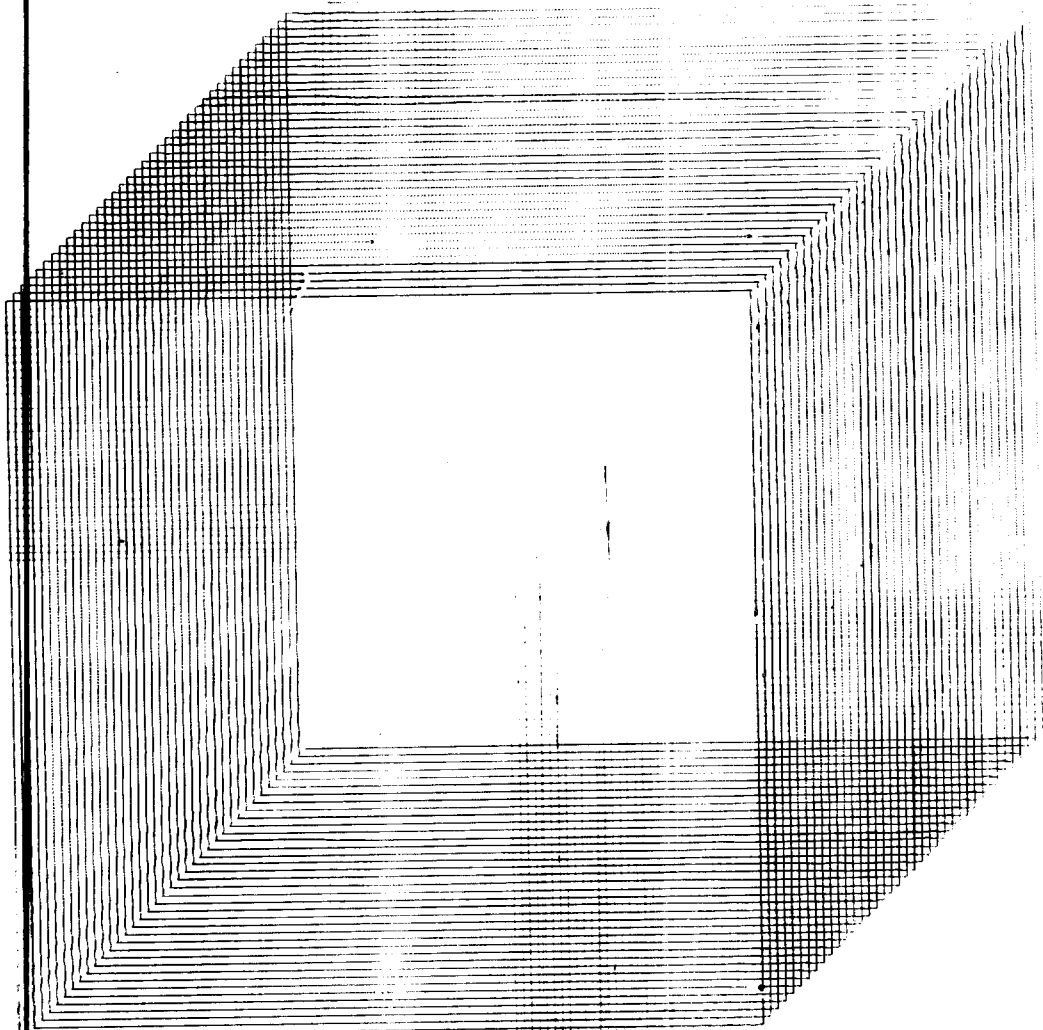
**ERASABILITY**

•

**WASHABILITY**

•

**PRINTING  
LATITUDE**



AP-182 printed in U.S.A.

	POST STOCK No.	BASE THICKNESS	DESCRIPTION	
This is a sample of 126-3	126-3	.003"	Matte front, glossy back	Available in all standard cut sheet sizes; also in 30", 36", 42", and 54" roll widths, 20 yard lengths.
	126M-3	.003"	Matte, both sides	
	126-5	.005"	Matte front, glossy back	
	126M-5	.005"	Matte, both sides	

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**FREDERICK POST COMPANY**

• **CHICAGO 90, ILLINOIS**

Next 1 Page(s) In Document Exempt

RIGHT

## DIRECTIONS



**"CRONAFLEX"\* DRAFTING FILM**  
 on .004" "Cronar"\* polyester film base

**Order Codes: 1-DF-4 Matte one side**  
**2-DF-4 Matte two sides**

"Cronaflex" Drafting Film is an outstandingly durable drafting medium, made *entirely* by Du Pont, which combines a superb matte surface with dimensionally stable "Cronar" polyester photographic film base. It is especially suited for original drawings which are to be reproduced on "Cronaflex" Engineering Reproduction Films.

**Pencil Acceptability:** "Cronaflex" Drafting Film has excellent pencil acceptance and is recommended for all types of original pencil drawings. Pencils up to 8H can be used, but in normal practice, pencils harder than 6H are not required. Drawings which will be reproduced on "Cronaflex" Engineering Reproduction Films are best made with pencils in the 2H to 4H range.

**Ink Acceptability:** High viscosity, quick drying India inks are recommended. Consult your Du Pont Photo Products Technical Representative for specific recommendations. "Cronaflex"

\*Du Pont Registered Trademarks

RGHT

"UC" Drafting Film is recommended when extreme detail in ink is required.

**Typing Acceptability:** The matte surface of "Cronaflex" Drafting Film is not fractured by the impact of the typewriter key. Ordinary ribbons are satisfactory for reflection viewing but do not produce enough density for diazo reproduction. Where character opacity is required, the following is recommended:

1. IBM total transfer ribbons for IBM Executive Typewriter, either acetate ribbon—No. 5550-2, or "Mylar"\* ribbon—No. 555.
2. Royal Typewriters use Royal M1200 "Mylar" ribbon—also Royal's No. 868 Multipurpose black ribbon.
3. Ozalid Opaque Typewriter ribbon available from Ozalid.
4. "Colitho" ribbon—Columbia Ribbon and Carbon Mfg. Co., Glen Cove, New York.

The "Mylar" ribbon offers the best quality producing sharp definition—both can be erased clean with vinyl Race Kleen or Magic Rub eraser.

**Printing Acceptability:** Printed data can be applied to the drawing surface with conventional offset or letterpress inks. Fast drying or solvent inks should be used in printing on the glossy side of the matte one side film. Generally, any good black ink with binding varnish added

\*Du Pont Registered Trademark

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will do a satisfactory job on either side of "Cronaflex" Drafting Film. The addition of 2 oz. of "No Scratch Dryer" to a pound of conventional ink will accelerate drying and improve scuff resistance.

**Erasure:** Graphite pencils are easily erased with a standard non-abrasive rubber eraser such as "Pink Pearl" #101, "Rub Kleen" #6002, "Corraline" #315, "Parawhite" #7031, "Parapink" #7011 and "Dandy Rub". The "Mars-Duralar" pencil is erased best with A. W. Faber's Magic Rub or Eberhard Faber Race Kleen #521. Ink lines may be erased with abrasive ink erasers such as the Dixon Wonder #1140 and #1141. Electric erasers may be used for pencil or ink erasing, but care should be exercised to prevent overheating the film.

**Surface Preparation:** No preparation of the surface is required to obtain excellent pencil lines. It is good practice to clean the surface to remove oils which result from handling. Art gum or a dry cleaning pad is recommended for this purpose.

**Cleaning:** Ozalid Matte Foil Cleaner will clean pencil and ink from large areas of "Cronaflex" Drafting Film easily. This also can be accomplished with a detergent and water (providing subsequent inking is not required). "Cronaflex" Drafting Film is not soluble in propanol, methylene chloride, benzene, toluene, ethanol, acetone, methyl alcohol, methyl ethyl ketone, carbon tetrachloride or trichlorethylene.

CPYRGHT

*While this product will be replaced if defective in manufacturing,  
labeling, or packaging, it is sold without express or  
implied warranty or liability of any other kind.*



**E. I. DU PONT DE NEMOURS & CO. (INC.)**

**PHOTO PRODUCTS DEPT.—WILMINGTON 98, DELAWARE**

**SALES OFFICES**

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Waltham 54, Mass. (Boston) . . . . . 45 4th Avenue  
Wynnewood, Pa. (Philadelphia) . . . . . 308 East Lancaster Avenue

**Export . . . . . Nemours Bldg., Wilmington 98, Delaware**  
**In Canada: Du Pont of Canada Limited, Toronto**

1-DP-4-L 8-62  
2-DP-4-L 8-62

PRINTED IN UNITED STATES OF AMERICA

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PRICE CODE S	DISTRICT 04	ACCTS. REC. NO. 0000000	T.N. NO. 270	DISTRICT ORDER NO. FN 63546	TAX DATA	TERMS	CISE	REN.
REQUESTED SHIPPING DATE			DEALER ORDER NO.		G/L CODE 8154	SUB ACCOUNT 51-04-680		
STAT								

**INVOICE TO:**

INVOICE TO:

**SAMPLES** *SAMPLES*

(98)

BILL CODE	SHIP DATE	P.O.B.	ROUTING	PPD COL	B/L N					
		4								

[illegible]

ALL GOODS BILLED AT OUR  
PRICES PREVAILING AT TIME  
OF SHIPMENT. SHORTAGE  
CLAIMS WILL NOT BE CONSID-  
ERED UNLESS MADE WITHIN 24  
HOURS AFTER RECEIPT OF  
GOODS.

PICKED BY:	PACKAGED	NUMBER	WEIGHT	KEY PUNCH
	PACKAGES			PUNCHED
CHECKED BY:	CARTONS			VERIFIED
PACKED BY:	DRUMS			STAT

STAT

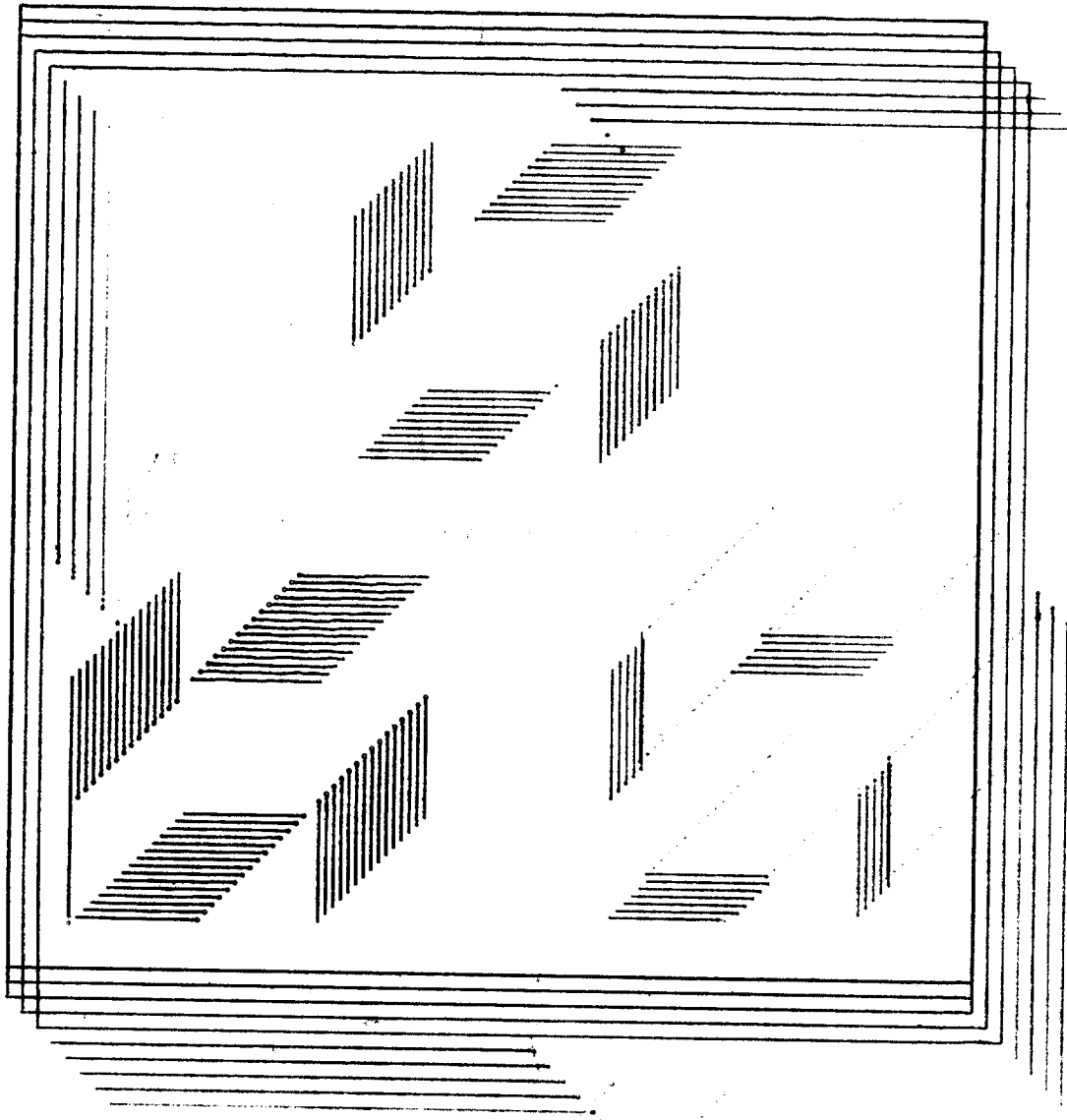
ITEMS MARKED  ARE BACK ORDERED.

QUANTITIES CIRCLED ~~APPROVED~~ FOR RELEASE 2003/01/28 : CIA-RDP78B04770A002600100011-2

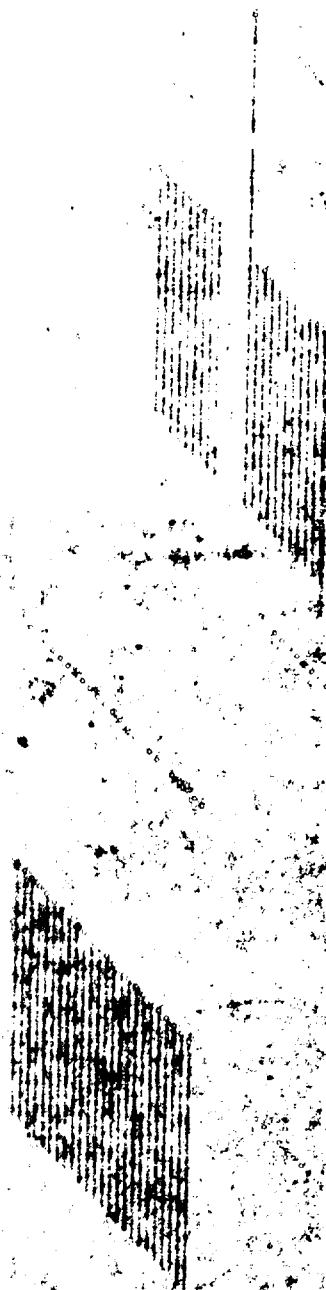
PLEASE REFER TO OUR DISTRICT ORDER NUMBER IN ANY

DATE 4/15/64  
UR ORDER.





2 #



DATED: 1 JUNE 1965

## STAT

GRADE	10# ACTION	12# ACTION
WEIGHT BASIS	17x22-500	17x22-500
SHIPMENT	3 weeks or less	2 weeks or less
AVAILABLE COLORS	WHITE ONLY	WHITE, CANARY, PINK, BLUE, GREEN, GOLDENROD
STANDARDS		
Widths	8 1/4, 8 3/4, 10 3/4, 11 3/4, 12 1/4, 13 1/2, 15 1/8, 15 1/2, 16 1/2, 17 1/2, 19 1/2, 22 1/4, 23 3/4, 24 1/2, 26"	
Winding	Print side out	Print side out
Roll diameter	23"	23"
Cores	3" i.d. paper	3" i.d. paper
Roll length (approx)	11,700 ft.	9,600 ft.
Packing		
Up to 20" wide	2 rolls per pallet	2 rolls per pallet
20" to 42"	1 roll per pallet	1 roll per pallet
42" & up	Contact Customer Service Department	
Roll weight (23"dia)approx	7.5#/inch of width	7.5#/inch of width

STAT

Approved For Release 2003/01/28 : CIA-RDP78B04770A002600100011-2

# ACTION<sup>®</sup> CARBONLESS PAPER

BRAND

## Converter Rolls

### DESCRIPTION OF "ACTION" BRAND CARBONLESS PAPER

ACTION Paper is a non-coated, self contained carbonless paper which forms blue-purple images in response to concentrated pressure. The product is very simple in makeup....consisting of millions of tiny chemical cells blended with ordinary sulfite pulp and manufactured on an ordinary paper-making machine. Each cell contains a minute amount of the image forming dye and is surrounded by a pressure sensitive shell. Several plies of the paper can be simultaneously imaged at once - each sheet forming an image all by itself.

### "ACTION" CARBONLESS PAPER APPLICATIONS

Almost every business form can be made with ACTION Carbonless Paper. Very unique advantages exist, however, when ACTION is used for:

1. Top sheet ribbonless entry applications
  - a. Fuel oil tickets
  - b. Garage repair order forms
  - c. Credit card charge sets
  - d. Scale tickets
  - e. Ribbonless computer print out
2. Top sheet of your choice
  - a. Voucher check - no special back coated papers required
  - b. Deposit forms - MICR Bond
  - c. Letterhead stocks of your choice
  - d. Heavy or light weight bonds as original
  - e. Special colored stock as original
  - f. Translucent sheets for diazo copying systems.
3. Extra copy - run behind existing form sets on high speed printers
4. Continuous forms where
  - a. Manual carbon delevaing would be required
  - b. Ribbonless entry is desired to save expensive ribbon costs or security requires ribbon and carbon destruction.

Here are some of the direct benefits to the administrative personnel who use ACTION carbonless business forms.

1. No need to insert or discard carbon paper - faster processing.
2. Smudge-free and clear, legible copies.
3. Safety - erasure violates good accounting practice.
4. Odorless
5. No edge-bleed to detract from appearance.
6. Saves paper - smaller stubs and increased imaging area.
7. Better employee moral.
8. A totally clean system.

### TECHNICAL PROPERTIES OF "ACTION" CARBONLESS PAPER

Here is a listing of the key technical properties which are of interest to the forms manufacturer and the forms user:

1. SHELF LIFE - ACTION Carbonless Paper may be kept in stock, under normal storage conditions, for more than three years. Normal extremes of temperature and humidity do not affect the performance of ACTION Paper.
2. PERMANENCY OF IMAGE - Under normal storage conditions, actual aging discloses that an ACTION Paper image remains legible for more than three years. Beyond this, accelerated laboratory aging indicates a much longer lasting image. An ACTION Paper image is unaffected by brief exposure to moisture and is smudge and smear resistant. ACTION Paper images exposed to prolonged periods of sunlight will slowly fade.
3. PRESSURE SENSITIVITY - Although ACTION Paper will always respond to concentrated pressure or impact, it is designed to withstand the effects of normal handling.
4. COPYABILITY

Xerox 813 & 914	OK
Electrostatic Copiers - Apeco, Bruning, Dennison	OK
Photo Copiers - Apeco, Copease, Kodak, Royal McBee & 3M Co.	OK
Microfilm - 3M Co., Kodak	OK
Thermo-Fax (infrared)	NO
Diazo - Bruning, Ozalid	OK
(Better results obtained with fast speed diazo copy paper)	
5. ERASABILITY - Not erasable. Best business practice is to line out errors and re-enter the corrected entry.
6. IMAGE FORMATION - The ACTION Paper image can be formed on either side of the sheet and reaches a dark intensity (90% of the ultimate image) within 30 seconds after making a machine entry. Images produced by hand entry take about three minutes to reach 90% of the final darkness. The image will gradually darken to reach the ultimate image. Best imaging is achieved on the "felt" side of the sheet.
7. CALIPER - 12# ACTION Paper is .0037 inch with a tolerance of  $\pm .0004$  inches. 10# is .0033  $\pm .0004$  inches.

### MANIFOLDING CAPABILITY OF "ACTION" PAPER FORMS

ACTION Paper has the built-in ability to produce quality copies in business forms with various types of entry. As with any system, however, there are suggest cut-off points to be used in designing business forms. Individual choice and circumstances must be considered in each situation.

TYPE OF ENTRY ON THE FORM	Number of Parts In the Form (Including the Original)	
	12# ACTION	10# ACTION
Hand Entry (Ballpoint Pen) . . . . .	3 . . . . .	3
Manual Typewriter . . . . .	6 . . . . .	7
Electric Typewriter . . . . .	8 . . . . .	9-10
Teletypewriter . . . . .	6 . . . . .	7
Automatic Typewriter (Flexowriter) . . . . .	7 . . . . .	8
High Speed Printer . . . . .	4-5 . . . . .	5-6

### ACTION PAPER ADVANTAGES IN THE FORMS MANUFACTURING PLANT

ACTION Paper is becoming a popular carbonless paper since it offers many key advantages to the business forms company from a production or manufacturing standpoint. Several of these benefits add significantly to the manufacturing profit margin.

1. SIMPLIFIED PAPER INVENTORY - It is no longer necessary to have mated, coated surfaces together in a carbonless form, since there is only one type of ACTION Paper. Because ACTION Paper will work with all existing forms papers, it is not necessary to stock carbonless versions of safety, ledger, MICR Bond, 12 or 20 pound bonds, or translucent papers for use as the original in a form.
2. FEWER PAPER SUPPLY CHANGES ARE NEEDED ON THE PRESS
3. LIGHTER WEIGHT PAPER - ACTION Paper is a 10 or 12 pound sheet and thus the finished business forms are lighter weight to reduce shipping costs.
4. ACTION PAPER IS DIMENSIONALLY STABLE + CURL RESISTANT
5. LONG PLATE LIFE WITH "ACTION" PAPER - Being a non-coated paper, ACTION Paper is less abrasive on printing plates. The paper is also surface sized like most grades of litho paper and, therefore, offset blanket dust is minimized.
6. NORMAL PRINTING SPEEDS AND PERFORATING PROCEDURES ARE USED
7. NO CHANCE TO PRINT THE WRONG SIDE - Felt side printing gives best image results, but since ACTION Paper can be imaged or printed on either side, there is no danger of wasting paper because of printing on the wrong side.
8. STANDARD INKS, GLUES AND TECHNIQUES MAY BE USED  
ACTION Paper is constructed like register bond papers and thus permits normal use of standard inks and glues.
9. "ACTION" PAPER CAN BE CRASH IMPRINTED - ACTION Paper is perfectly suitable for crash imprinting numbers or other special information - even the complete form.
10. CARBON COMPATIBILITY - Tests with leading one-time carbon manufacturers indicate ACTION Paper is compatible with all types of one-time carbon.
11. BACK PRINTING - This can be done by offset and rubber plate.

### "ACTION" PAPER ON THE ROTARY FORMS MANUFACTURING PRESS

ACTION Paper can be printed on Web offset and rotary letterpress printing equipment. Typical equipment like Western Gear, Diddie Glaser, Schriber, Hamilton, ATF, Ashton and Clary have been employed to run ACTION. If questions arise in either printing or collating, contact Paper Products Division, Technical Service Laboratory.

There are a few key areas on the press which should be observed. They are: pull and gripper rollers, perforated metal tape used on idler rollers, and knurled gripper jaws used for folding continuous forms. Generally, the pressure of the rollers can be reduced or they can be positioned to the trim margins of the form. Abnormal pressures between the blanket and impression cylinder should be watched as this can cause background marking of the paper. The blanket gap will show as a lighter background on the printed web, if this is happening.

The best time to check for pressure marks is when board length and print quality are checked. Observe the printed web and look for pressure imaging marks on the paper. This is done by looking at the wind-up roll where multiple layers of paper exist. A printed sample can also be compared to the unprinted paper to determine pressure marking. The more time that can be allowed, the better -- because the marking from the press components is not always immediately noticeable. Allow as